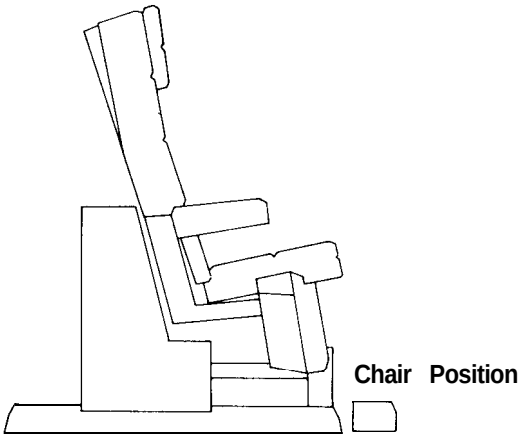
MIDMARK®

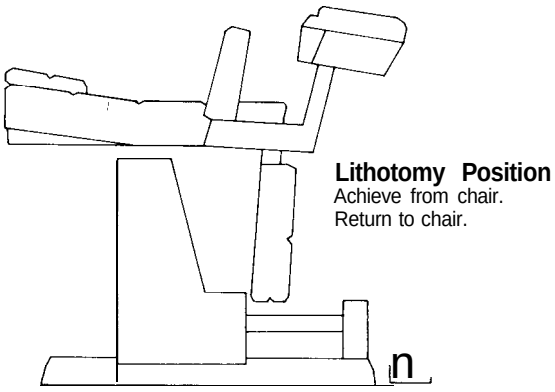
INSTALLATION & OPERATION MANUAL

Model 115

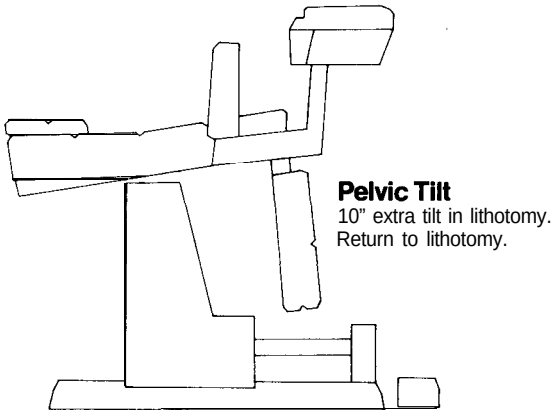
OB/GYN CHAIR



Chair Position



Lithotomy Position
Achieve from chair.
Return to chair.



Pelvic Tilt
10" extra tilt in lithotomy.
Return to lithotomy.

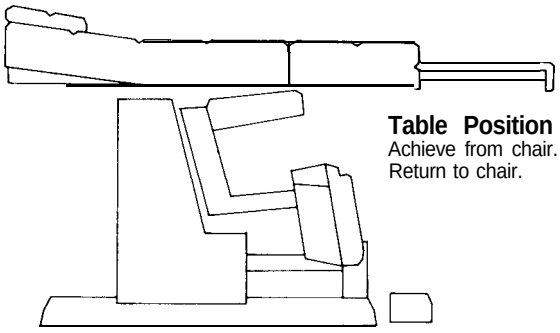
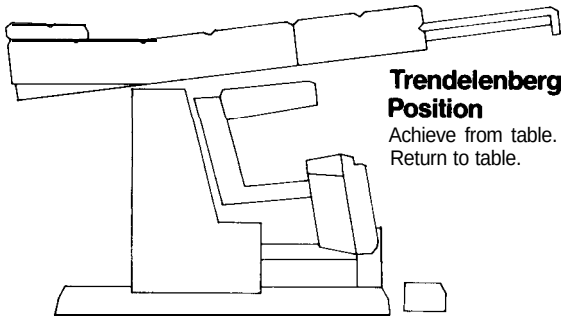


Table Position
Achieve from chair.
Return to chair.



Trendelenberg Position
Achieve from table.
Return to table.

MIDMARK CORPORATION, Versailles, Oh. 45380

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IMPORTANT INSTRUCTIONS

Safety First: The primary concern of Midmark Medical Corporation is that this equipment be operated and maintained with the safety of the patient and doctor in mind.

To assure safer and more reliable operation:

1) Read this manual before install&g or operating your equipment.

2) It is the responsibility of the customer to assure that appropriate personnel are informed of the contents of this manual.

3) Be sure that you understand the instructions contained in this manual before attempting to install or operate this equipment.

4) This manual should remain permanently affixed to the equipment.

Throughout this manual are "Notes", "Cautions" and "DANGER" warnings that call attention to particular procedures. The items are used as follows:

Note: A Note is used to amplify an operating procedure, practice or condition.

CAUTION: A CAUTION IS USED FOR AN OPERATING PROCEDURE, PRACTICE OR CONDITION WHICH, IF NOT CORRECTLY FOLLOWED, COULD RESULT IN EQUIPMENT DAMAGE.

DANGER: A DANGER IS USED FOR AN OPERATING PROCEDURE, PRACTICE OR CONDITION WHICH, IF NOT CORRECTLY FOLLOWED, COULD RESULT IN PERSONAL INJURY.

For your personal safety and that of your patients all DANGER warnings are repeated here. Become throughly familiar with them and observe them at all times.

1. **DO NOT LIFT AT POINTS "B" AND "C", FIG. 1. THESE POINTS ARE NOT SUPPORTED AREAS. LIFTING AT THESE POINTS COULD CAUSE PERSONAL INJURY OR DAMAGE TO THE CHAIR.**

2. **FAILURE TO REMOVE THE DRAINAGE PAN BEFORE MOVING THE CHAIR FROM THE LITHOTOMY POSITION COULD CAUSE PERSONAL INJURY AND EQUIPMENT DAMAGE.**

3. **USE 115 VOLT - 60 HERTZ ALTERNATING CURRENT ONLY. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY OR EQUIPMENT DAMAGE.**

4. **DO NOT USE THIS CHAIR IN AN EXPLOSIVE OR OXYGEN-ENRICHED ATMOSPHERE. USING THE CHAIR IN THESE SITUATIONS COULD CAUSE PERSONAL INJURY OR EQUIPMENT DAMAGE.**

5. **KEEP ALL FOREIGN OBJECTS AWAY FROM THE FOOTSWITCH SO THAT THE PEDALS ARE NOT ACCIDENTALLY ACTIVATED. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY OR DAMAGE TO THE CHAIR.**

6. **IF THE CHAIR MALFUNCTIONS, IMMEDIATELY REMOVE YOUR FOOT FROM THE FOOTSWITCH, UNPLUG THE POWER CORD FROM THE WALL RECEPTACLE, AND ASSIST THE PATIENT FROM THE CHAIR.**

7. **THE PATIENT'S LEGS MUST BE IN THE LEG SUPPORTS AT ALL TIMES EXCEPT WHEN THE CHAIR IS MOTIONLESS IN THE "TABLE", "TRENDELENBERG" OR "CHAIR" POSITIONS. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY.**

8. **KEEP YOUR ARMS AND LEGS AND YOUR PATIENT'S ARMS AND LEGS CLEAR OF ALL MOVING PARTS WHEN CHANGING CHAIR POSITIONS. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY.**

9. **LEG SUPPORTS MUST BE RAISED AND LOCKED IN POSITION AT ALL TIMES EXCEPT WHEN THE CHAIR IS IN THE "TABLE" OR "TRENDELENBERG" POSITIONS. FAILURE TO DO SO COULD CAUSE PERSONAL INJURY OR DAMAGE TO THE TABLE.**

10. **FAILURE TO RETRACT THE FOOTSTEP AND FOOTREST AND TO RAISE AND LOCK THE LEG SUPPORTS INTO POSITION COULD RESULT IN PERSONAL INJURY OR CHAIR DAMAGE.**

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11. **THE LEG SUPPORTS MUST ALWAYS BE IN USE BY THE PATIENT AND MUST BE IN THE LOCKED POSITION EXCEPT WHEN THE CHAIR IS IN THE "TABLE" POSITION OR IN THE "TRENDELENBERG" POSITION. FAILURE TO DO SO COULD RESULT IN INJURY TO THE PATIENT AND DAMAGE TO THE CHAIR.**

12. **FAILURE TO PERFORM A PERIODIC INSPECTION COULD RESULT IN PERSONAL INJURY OR EQUIPMENT DAMAGE.**

WARRANTY

IMPORTANT: FILL OUT AND MAIL THE WARRANTY REGISTRATION CARD WITHIN 7 DAYS AFTER DELIVERY OF YOUR MODEL 115 OB/GYN CHAIR.

Your Model 115 OB/GYN Chair is warranted for a period of 12 months from date of delivery as specified in the "LIMITED WARRANTY" printed on the back cover. Warranty claims will be handled promptly when the Warranty Card is on file at Midmark. In the event of equipment failure, immediately contact the authorized Midmark dealer who sold you the equipment. He will make the necessary warranty repairs. Do not attempt to disassemble or repair defective or inoperative components or substitute parts of another manufacturer. Such action will void the warranty and may render operation of the equipment unsafe. THE "LIMITED WARRANTY" PRINTED ON THE BACK COVER OF THIS MANUAL IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, AND ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF THE COMPANY.

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GENERAL OPERATION AND CARE OF EQUIPMENT

INTRODUCTION

This manual covers complete instructions for the installation, operation and normal care of the Model 115 OB/GYN Chair.

This chair has been designed to help the female patient overcome examination table fright and reduce the trauma resulting from excess stress and physical exertion. This allows the doctor to perform a more professional examination or treatment. Moreover, the Model 115 OB/GYN Chair with programmed positioning eliminates the manual effort ordinarily required for proper patient positioning, reducing the work fatigue for the doctor.

The correct examination and treatment position is easily achieved by the use of an electric-hydraulic power unit. Toe-touch control automatically positions the patient in the lithotomy position. Pelvic height is 33" with an additional 2" of pelvic area powered adjustment (10° pelvic tilt) available. The Model 115 OB/GYN Chair can also be toe-touch controlled into a table position with 10" tilt available for the Trendelenberg position.

All positions are controlled by the doctor using the foot control. This leaves both hands free while positions are being achieved.

UNPACKING AND INSTALLATION

Unpacking: To avoid damaging the chair's upholstered top or side panels, do not use a knife or other sharp object to open the packaging when unpacking. Unbolt the chair from the wooden shipping skid by removing four (4) bolts on the underside of the base, one at each corner. After unbolting, remove the chair from the skid, lifting only at points "A", Fig. 1.

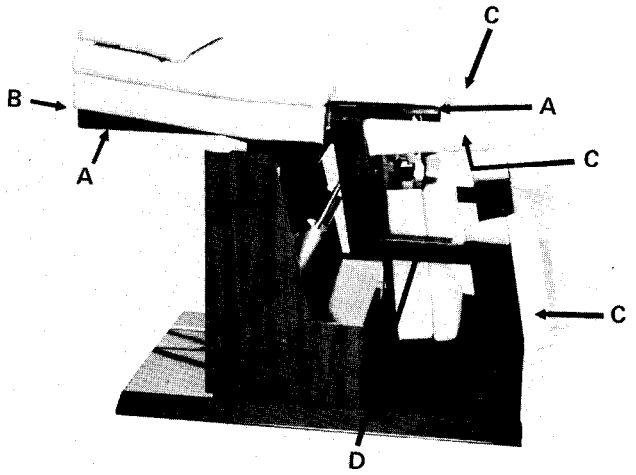

Fig. 1.

DANGER: DO NOT LIFT AT POINTS "B" AND "C", FIG. 1. THESE POINTS ARE NOT SUPPORTED AREAS. LIFTING AT THESE POINTS COULD CAUSE PERSONAL INJURY OR DAMAGE TO THE CHAIR.

The leg supports must now be raised and locked in position. Do this by grasping the leg supports by the support arm, Item D, Fig. 1 and rotate upward until the leg supports lock into position.

CAUTION: FAILURE TO LOCK THE LEG SUPPORTS INTO POSITION COULD RESULT IN DAMAGE TO THE CHAIR.

Leveling: A leveling screw pad is located under each corner of the chair base. By adjusting these pads in or out, a level, solid installation can be achieved on uneven floors.

Installing Pillow: An adjustable pillow is included with your chair. To install the pillow, loosen the upholstered back section velcro tabs by pulling up and out on both sides. Insert the pillow hold-down piece under the back section so that the velcro strip, Item A, Fig. 2, makes contact -with the velcro tabs, Item B, Fig. 2.

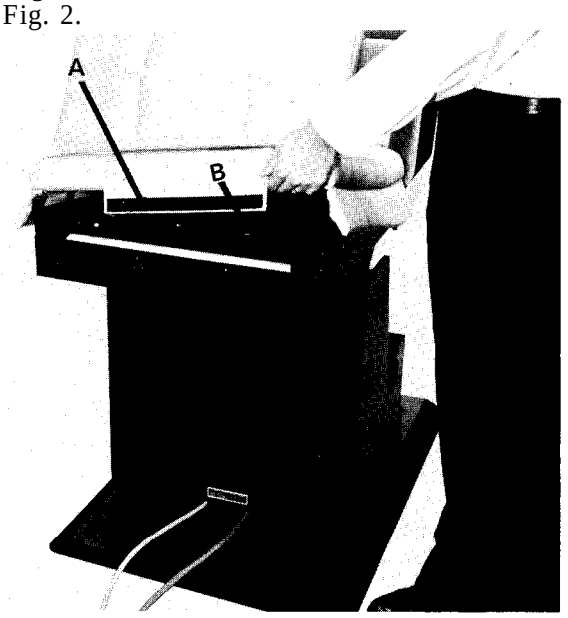

Fig. 2.

After installing the pillow, reposition the upholstered back section and press down and in on both sides.

Position the upholstered back section so that rotation of the leg support will not cause damage to the upholstery.

Drainage Pan: A stainless steel drainage pan is shipped with each chair. This pan is for use only when the chair is in the lithotomy position.

To install the pan after the lithotomy position has been achieved, place the pan in position by hooking it over the screws, Item "A", Fig. 3.

Always remove the drainage pan before moving the chair from the lithotomy position.

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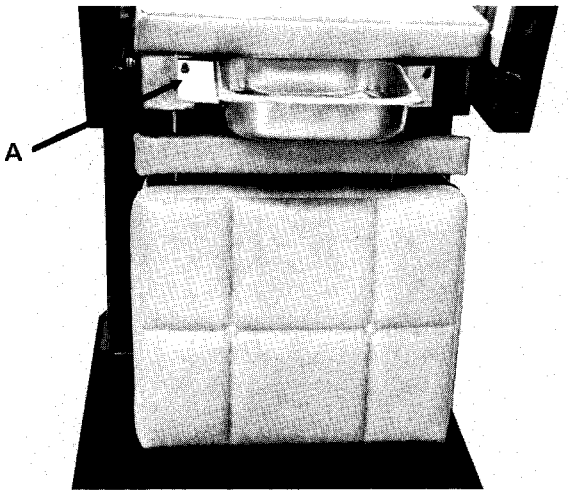

Fig. 3.

DANGER: FAILURE TO REMOVE THE DRAINAGE PAN BEFORE MOVING THE CHAIR FROM THE LITHOTOMY POSITION COULD CAUSE PERSONAL INJURY AND EQUIPMENT DAMAGE.

Electrical: The electrical rating for the Model **115** OB/GYN Chair is 115 Vac, 60 Hertz, 10 Ampere.

The three-pronged grounding plug on the chair power cord must be inserted into a matching three-pronged, grounded, 115 Volt receptacle.

DANGER: 1. USE 115 VOLT - 60 HERTZ ALTERNATING CURRENT ONLY. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY OR EQUIPMENT DAMAGE.
2. DO NOT USE THIS CHAIR IN AN EXPLOSIVE OR OXYGEN-ENRICHED ATMOSPHERE. USING THE CHAIR IN THESE SITUATIONS COULD CAUSE PERSONAL INJURY AND EQUIPMENT DAMAGE.

OPERATION OF POWER FEATURES:

For optimal performance, allow chair to reach room temperature before operating.

The Footswitch: The footswitch is designed for operator comfort. A firm stance may be maintained by placing your foot into one of the three footswitch sections. By rocking your foot you will activate movement of the chair.

DANGER: KEEP ALL FOREIGN OBJECTS AWAY FROM THE FOOTSWITCH SO THAT THE PEDALS ARE NOT ACCIDENTALLY ACTIVATED. FAILURE TO TO DO SO COULD RESULT IN PERSONAL INJURY OR DAMAGE TO THE CHAIR.

Note: This equipment is not designed for continuous operation. If the unit is operated continually, a thermal overload switch will shut off the chair motor. If this occurs, immediately remove your foot from the footswitch. The overload switch will automatically reset after the motor cools.

DANGER: IF THE CHAIR MALFUNCTIONS, IMMEDIATELY REMOVE YOUR FOOT FROM THE FOOTSWITCH, UNPLUG THE POWER CORD FROM THE WALL RECEPTACLE, AND ASSIST THE PATIENT FROM THE CHAIR.

DANGER: THE PATIENT'S LEGS MUST BE IN THE LEG SUPPORTS AT ALL TIMES EXCEPT WHEN THE CHAIR IS MOTIONLESS IN THE "TABLE", "TRENDELENBERG" OR "CHAIR" POSITIONS. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY.

DANGER: KEEP YOUR ARMS AND LEGS AND YOUR PATIENT'S ARMS AND LEGS CLEAR OF ALL MOVING PARTS WHEN CHANGING CHAIR POSITIONS. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY.

DANGER: LEG SUPPORTS MUST BE RAISED AND LOCKED IN POSITION AT ALL TIMES EXCEPT WHEN THE CHAIR IS IN THE "TABLE" OR "TRENDELENBERG" POSITIONS. FAILURE TO DO SO COULD CAUSE PERSONAL INJURY OR DAMAGE TO THE CHAIR.

Note: The hydraulic cylinders on this chair are equipped with high quality seals. These seals require a break-in period of about 100 cycles for proper lubrication. Until these seals are "broken-in" some noise will occur.

PATIENT POSITIONING

Lithotomy: To attain the lithotomy position from a chair position:

1. Depress the left side of the pedal marked "LITHOTOMY ACQUIRE" (See Fig. 4) and hold down until the chair stops automatically in the lithotomy position.

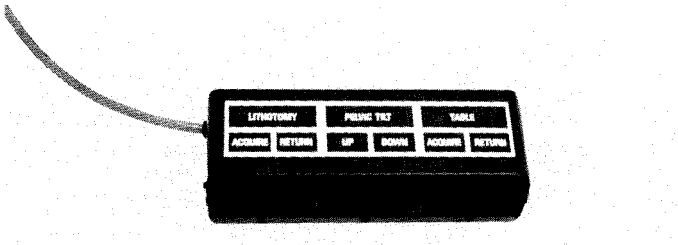

Fig. 4.

To attain the lithotomy position from a table position:

1. Retract the footstep and footrest to their storage positions and raise and lock the leg supports into position.

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DANGER: FAILURE TO RETRACT THE FOOTSTEP AND FOOTREST AND TO RAISE AND LOCK THE LEG SUPPORTS INTO POSITION COULD RESULT IN PERSONAL INJURY OR CHAIR DAMAGE.

2. Depress the left side of the pedal marked "LITHOTOMY ACQUIRE" and hold down until the chair stops automatically in the lithotomy position.

To attain the lithotomy position from a trendelenberg position:

1. Retract the footstep and footrest to their storage positions and raise and lock the leg supports into position.

DANGER: FAILURE TO RETRACT THE FOOTSTEP AND FOOTREST AND TO RAISE AND LOCK THE LEG SUPPORTS INTO POSITION COULD RESULT IN PERSONAL INJURY OR CHAIR DAMAGE.

2. Depress the right side of the pedal marked "PELVIC TILT DOWN" and hold down until the chair stops automatically in the table position.

3. Depress the left side of the pedal marked "LITHOTOMY ACQUIRE" and hold down until the chair stops automatically in the lithotomy position.

To attain the lithotomy position from a pelvic tilt position:

1. Depress the right side of the pedal marked "PELVIC TILT DOWN" and hold down until the chair stops automatically in the lithotomy position.

To return to a chair position from a lithotomy position:

1. Depress the right side of the pedal marked "LITHOTOMY RETURN" and hold down until the chair stops automatically in the chair position.

Table: To attain the table position from a chair position:

1. Depress the left side of the pedal marked "TABLE ACQUIRE" and hold down until the chair stops automatically in the table position. If desired, extend the footrest, lower the chair arms and extend the footstep.

To attain the table position from a lithotomy position:

1. Depress the left side of the pedal marked "TABLE ACQUIRE" and hold down until the chair stops automatically in the table position. If desired, extend the footrest, lower the chair arms and extend the footstep.

To attain the table position from a pelvic tilt position:

1. Depress the left side of the pedal marked "TABLE ACQUIRE" and hold down until the chair stops automatically in the table position. If desired, extend the footrest, lower the chair arms and extend the footstep.

To attain the table position from a trendelenberg position:

1. Depress the right side of the pedal marked "PELVIC TILT DOWN" and hold down until the chair stops automatically in the table position. If desired, extend the footrest, lower the chair arms and extend the footstep.

To return to a chair position from a table position:

1. Retract the footstep and footrest to their storage positions and raise and lock the leg supports into position.

DANGER: FAILURE TO RETRACT THE FOOTSTEP AND FOOTREST AND TO RAISE AND LOCK THE LEG SUPPORTS INTO POSITION COULD RESULT IN PERSONAL INJURY OR CHAIR DAMAGE.

2. Depress the right side of the pedal marked "TABLE RETURN" and hold down until the chair stops automatically in the chair position.

Pelvic Tilt: To attain the pelvic tilt from a lithotomy position:

1. Depress the left side of the pedal marked "PELVIC TILT UP" and hold down until the desired amount of tilt or the maximum of 10" tilt is achieved.

Do NOT hold the control pedal down after the chair has reached the maximum tilt. Operation of the chair for an extended period of time at this position will overheat the motor.

To return to a chair position from a pelvic tilt position:

1. Depress the right side of the pedal marked "LITHOTOMY RETURN" and hold down until the chair stops automatically in the chair position.

Trendelenberg: To attain the trendelenberg position from the table position:

1. Depress the left side of the pedal marked "Pelvic Tilt Up" and hold down until the desired amount of tilt or the maximum 10" tilt is achieved.

Do not hold the control pedal down after the chair has reached the maximum tilt. Operation of the chair for an extended period of time at this position will overheat the motor.

To return to a chair position from a trendelenberg position:

1. Retract the footstep and footrest to their storage positions and raise and lock the leg supports into position.

DANGER: FAILURE TO RETRACT THE FOOTSTEP AND FOOTREST AND TO RAISE AND LOCK THE LEG SUPPORTS INTO POSITION COULD RESULT IN PERSONAL INJURY OR CHAIR DAMAGE.

2. Depress the right side of the pedal marked "TABLE RETURN" and hold down until the chair stops automatically in the chair position.

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Note: The table return and lithotomy return will always return the equipment to a chair position.

CHAIR FEATURES

Illumination Lights: High intensity, low voltage lights Item A, Fig. 5 are recessed into each leg support to illuminate the vaginal, rectal, and pelvic areas when the chair is in the lithotomy and pelvic tilt positions. These lights will turn on automatically as the chair is toe-touched programmed into the lithotomy position when the light rocker switch, Item A, Fig. 6, is in the "on" position. The lights will turn off automatically as the chair is returned from the lithotomy position. The lights may be turned off and will remain off when the light rocker switch is placed in the "off' position.

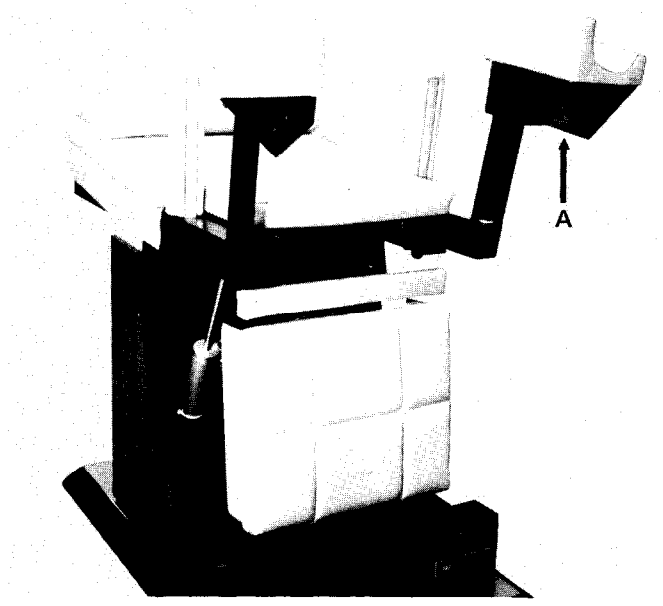

Fig. 5.

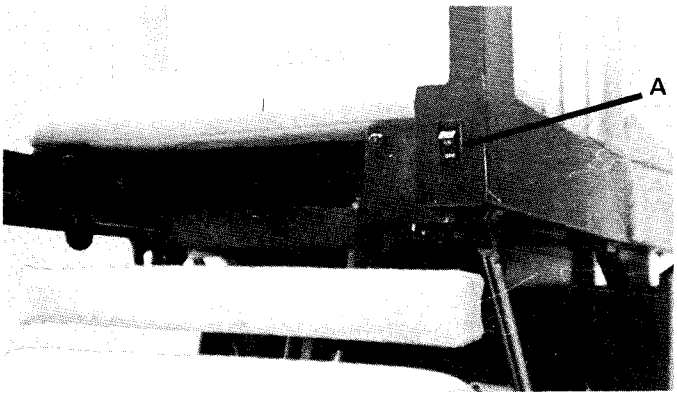

Fig. 6.

DANGER: THE LEG SUPPORTS MUST ALWAYS BE IN USE BY THE PATIENT AND MUST BE IN THE LOCKED POSITION EXCEPT WHEN THE CHAIR IS IN THE "TABLE" POSITION OR IN THE "TRENDELENBERG" POSITION. FAILURE TO DO SO COULD RESULT IN INJURY TO THE PATIENT AND DAMAGE TO THE CHAIR.

Leg Supports: The integral leg supports and padded arm rests may be lowered out of the way for examination and treatment in the table or trendelenberg positions. To lower the leg support, grasp it by the support arm, Item A, Fig. 7, and release the lock by pushing the handle, Item B, Fig. 7, away from you and lowering the leg support until it is in the position as shown in Fig. 8.

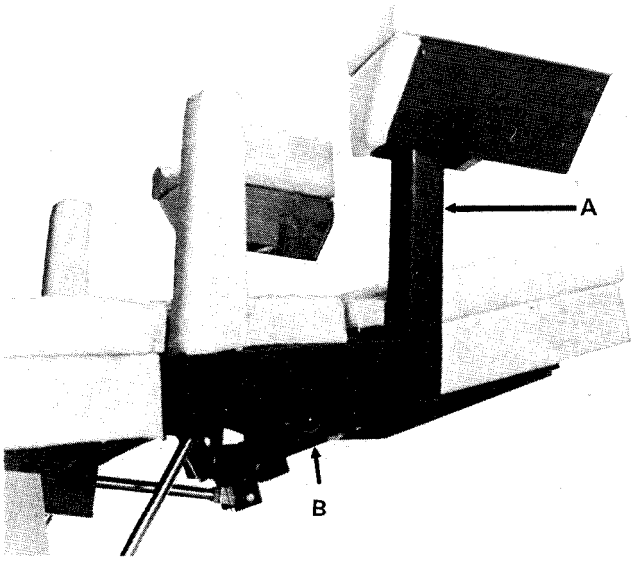

Fig. 7.

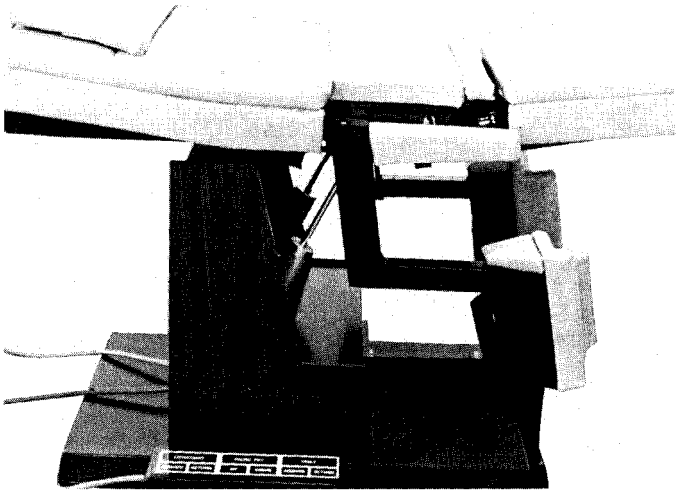

Fig. 8.

To return leg supports to their locked position, grasp the leg supports by the support arm and rotate upward until the leg supports are securely locked into position.

Note: The leg support latch has two locking positions. The leg support must be fully locked in the second position before using.

Footrest: The padded footrest may be pulled out to extend the top to 66" in the table and trendelenberg positions.

To extend the footrest, grasp end of footrest, push lever, Item A, Fig. 9, up and pull footrest to desired extension.

When returning footrest to its storage position, push footrest all the way in until it is securely locked into position.

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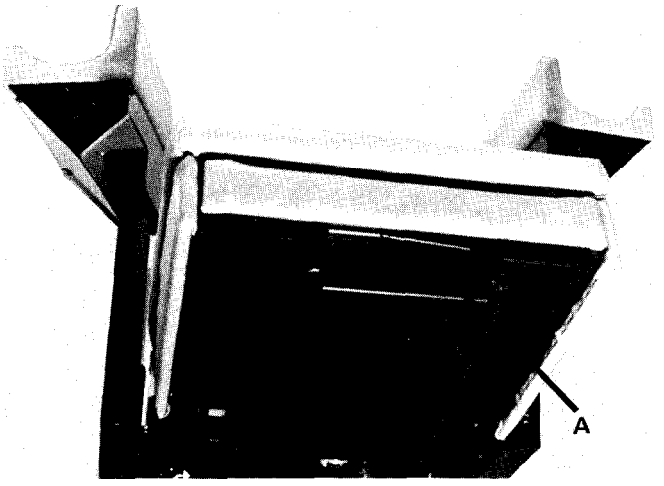

Fig. 9.

CAUTION: ALWAYS RETURN THE FOOTREST TO ITS LOCKED STORAGE POSITION WHEN NOT IN USE. FAILURE TO DO SO COULD RESULT IN DAMAGE TO THE CHAIR.

Footstep: A footstep is provided to assist the patient on and off the chair when in a table position.

The step is designed to be moved by hooking toe of your shoe under the front edge of the step.

Paper Roll: A standard 18" wide x 3¼" dia. paper roll is stored conveniently in the top of the back section. Pull out paper to desired length. For added security the end of the paper may be tucked underneath the bottom edge of the upholstered back section. Tear off used paper by grasping each edge of the paper near the cutting edge, Item A, Fig. 10, and pulling down and across this cutting edge in a continuous motion.

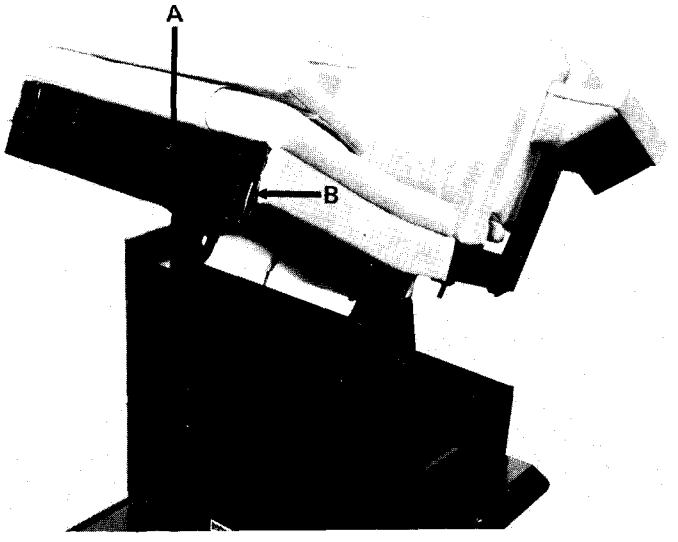

Fig. 10.

Access to the paper roll storage area for replacement of the paper roll is accomplished by sliding the two latches, Item B, Fig. 10, down and pulling thehinged access door towards you. When replacing the paper roll, the free edge of the paper must pass beneath the hold down rod.

After installing a new paper roll, close access door making sure both latches are firmly engaged.

CARE OF CHAIR

Care of Upholstery: The upholstery material used to cover the chair is resistant to most medicinal-type stains, but may be damaged by solvents and dyes. Regular care should be maintained by daily wiping with a damp cloth or sponge and periodic cleaning with a mild soap and water solution.

Any fluid spilled on the upholstery should be removed as quickly as possible.

In the case of stain, attempt to remove it with soap and water.

Care of Rubberized Tread on Base and Step: The protective tread material may be cleaned periodically by a light scrubbing with a stiff bristle brush and mild soap and water.

Care of Painted Metal Surfaces: All painted metal surfaces should be wiped with a clean, soft cloth weekly and periodic applications of paste wax made to all surfaces to preserve the finished luster.

Care of Side Panels: All side panels should be wiped with a clean, soft cloth with periodic applications of paste wax to preserve surface luster.

Care of Moving Parts: All moving parts such as the tilt pivot pins should be oiled occasionally with light machine oil to help insure quiet dependable operation.

Light Bulb Replacement: The light bulbs, lamp number 1142, used in the high intensity, low voltage lamps may be obtained from a local automotive or electrical supply house. Access to the light bulbs is obtained by removing two phillips head screws, Items A, Fig. 11, sliding the lamp assembly out of the recess approximately ½", and removing the clear lamp cover. Remove the defective bulb from the socket and replace with a new bulb. Reassemble the lamp by replacing the clear lamp cover, sliding the lamp assembly into the recess and securing with the two phillips head screws.

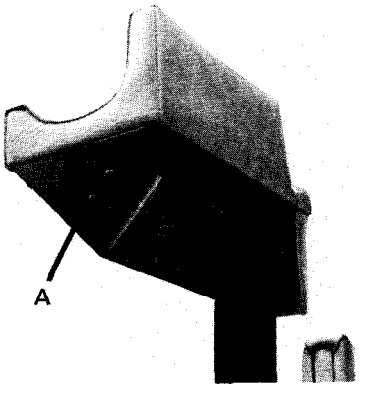

Fig. 11.

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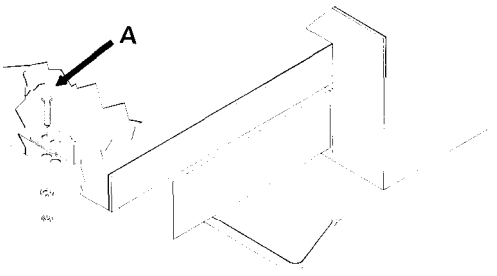

Fig. 12.

Footstep Adjustment: The footstep may be adjusted to slide out the right side of the chair base or slide out the left side of the chair base. The following details the procedures to be followed for changing a step that slides out the right side to one that slides out the left side.

1. Extend step out the right side of the base.
2. Remove the two hex head bolts, lockwashers and hex nuts, Items A, Fig. 12, and the metal stop tab.
3. Remove step from chair by sliding it out the left side of the base.
4. Turn step around and install in chair by sliding it in from the right side of the base.
5. Extend step out the left side of the base and install the two hex head bolts, lockwashers, and hex nuts and the metal stop tab.

Check operation of step. Step should stop automatically when fully extended and should stop automatically when fully retracted in the storage position.

POWER SYSTEM MAINTENANCE

The motor, pump and reservoir of the power system are enclosed in a sounddeadened metal housing which is located on the chair base plate.

Little routine maintenance is required other than a periodic inspection of hydraulic hose lines and electrical cords to make sure they are free of cuts or damage and clear of moving parts.

Due to the mechanical, electrical nature of this equipment, periodic inspections at six month intervals by your dealer are recommended.

DANGER: FAILURE TO PERFORM A PERIODIC INSPECTION COULD RESULT IN PERSONAL INJURY OR EQUIPMENT DAMAGE.

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LIMITED WARRANTY

The Company shall repair or replace any products or parts thereof, which prove to be defective in workmanship and/or material. Except as it may otherwise specifically agree in writing the Company shall not be liable for transportation, labor or other charges for adjustments, repairs, replacement parts, installation or other work which may be done upon or in connection with such products by the Company's authorized Dealers or others.

Any part or parts of a product to be repaired or replaced under this limited warranty must be returned to the factory f.o.b.

This warranty does not apply to any part or product which examination discloses has been misued, abused, altered or tampered with in any way. This warranty shall be in effect for a period of twelve months from the date of shipment to the customer.

In no event shall the Company be liable for consequential or special damages in the event of warranty repair or replacement of its products.

THE FOREGOING IS IN LIEU OF ALL WARRANTIES EXPRESSED OR IMPLIED, AND ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF THE COMPANY.

MIDMARK®

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